



Product Approval
USER: Public User

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OFFICE OF THE
SECRETARY

FL # FL41890-R1
Application Type Revision
Code Version 2023
Application Status Approved

Comments
Archived ☐

Product Manufacturer Mr-Glass Doors & Windows Manufacturing, LLC
Address/Phone/Email 8051 NW 79th Place
Medley, FL 33166
(305) 470-8284
ulises@mrglasswindows.com

Authorized Signature Ulises Senaris
ulises@mrglasswindows.com

Technical Representative Augusto Arias
Address/Phone/Email 8120 NW 84th St
Medley, FL 33166
(305) 470-8284
aarias@mrglasswindows.com

Quality Assurance Representative
Address/Phone/Email

Category Windows
Subcategory Horizontal Slider

Compliance Method Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer
☐ Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed the Evaluation Report Jalal Farooq
Florida License PE-81223
Quality Assurance Entity Keystone Certifications, Inc.
Quality Assurance Contract Expiration Date 04/30/2035
Validated By Abel Carrasco, PE
☒ Validation Checklist - Hardcopy Received

Certificate of Independence [FL41890_R1_COI_SS - Certificate of Independence 2023.pdf](#)

Referenced Standard and Year (of Standard)	Standard	Year
	TAS 201	1994
	TAS 202	1994
	TAS 203	1994

Equivalence of Product Standards
Certified By

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

07/25/2023

Date Validated

07/25/2023

Date Pending FBC Approval

08/01/2023

Date Approved

10/18/2023

Summary of Products

FL #	Model, Number or Name	Description
41890.1	Series MG-350 Aluminum Horizontal Rolling Window	Large missile impact resistant aluminum horizontal rolling window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +65/-65 Other: See attached drawing 23-01F for span vs. load combination and installation details		Installation Instructions FL41890_R1_II_SS - MG-350 HR (LMI) - DWG 23-01F 2023.pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL41890_R1_AE_SS - MG-350 HR (LMI) - PAE 2023.pdf Created by Independent Third Party: Yes

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Product Approval Accepts:



MG-350

ALUMINUM HORIZONTAL ROLLING WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEETS J & 3.1.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF H.R./H.R. OR HORIZ. ROLLING WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING F.B.C. APPROVED MULLIONS IN BETWEEN.

LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

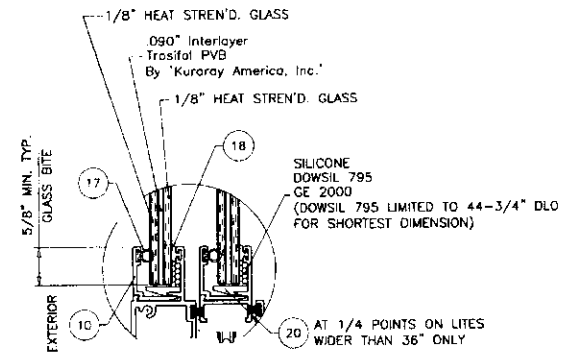
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.



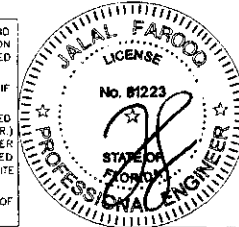
GLAZING DETAIL
5/16" OVERALL LAM. GLASS

THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

Sealed: 7/21/2023

FL #41890

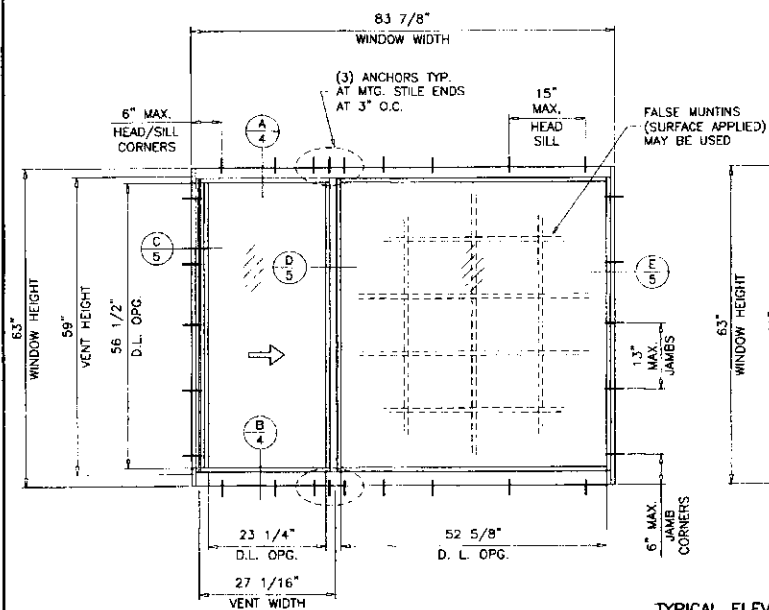
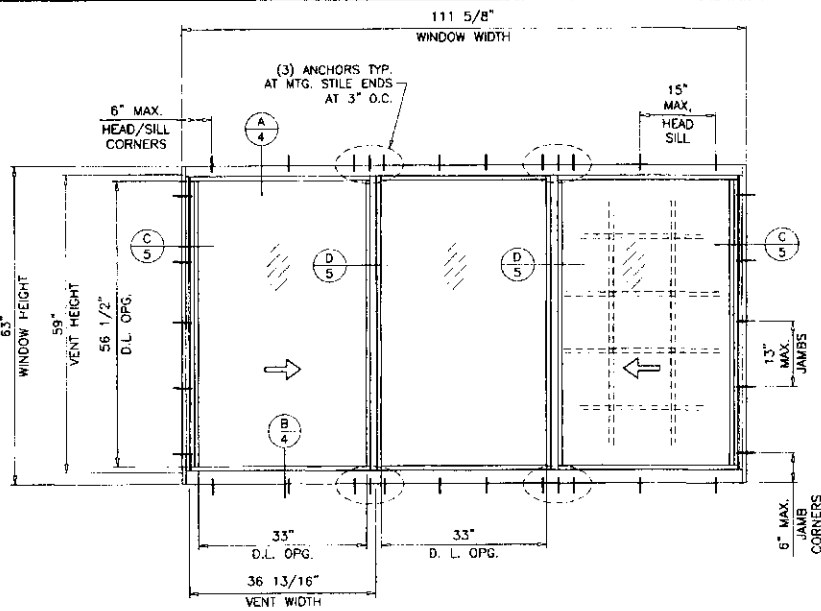
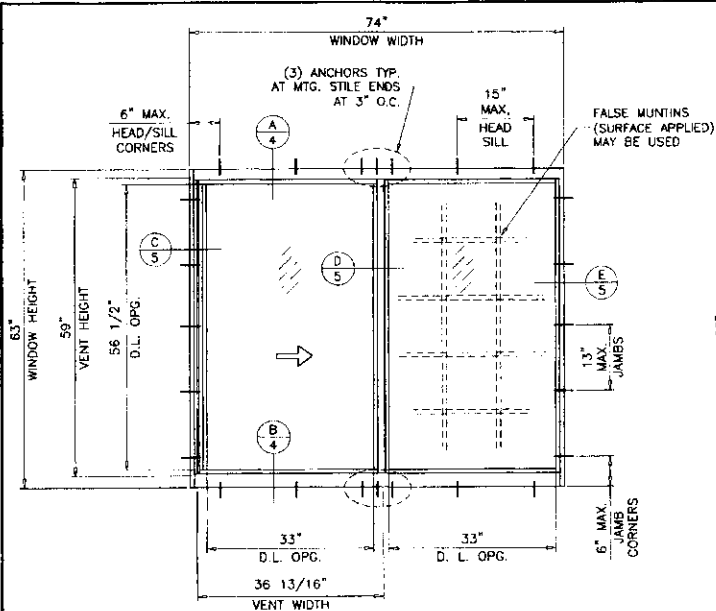
- A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT



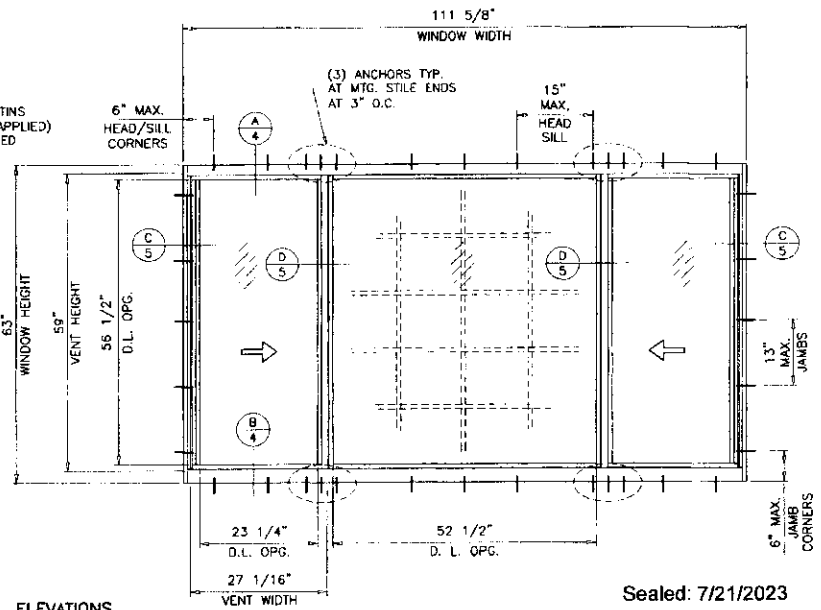
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL (305) 264-8100 WWW.AFCENG.COM P8P8 #3538	
MG-350 ALUM. HORIZ. ROLLING WDW. (L.M.I.) MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC 8051 N.W. 79th Place Medley, FL 33166 Tel. (305) 764-3963 WWW.MRGGLASSWINDOWS.COM	
date: 01-06-23 no: 17-1823 scale: 1/2"=1'-0" dr. by: TARIQ ckn. by:	drawing no. 23-01F sheet 1 of 7

af c

COMP-ANL\23-01F-MG

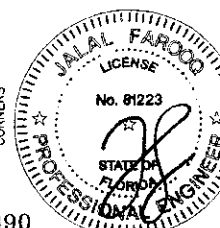


TYPICAL ELEVATIONS
TESTED UNITS



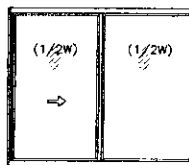
Sealed: 7/21/2023

FL #41890



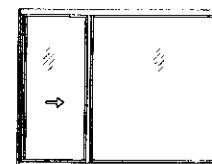
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL (305) 264-8100 WWW.AFCENG.COM FBPE #9538	
MC-350 ALUM. HORIZ. ROLLING WDW. (L.M.I.) MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC 8051 N.W. 79th Place Medley, FL 33166 Tel. (305) 764-3963 WWW.MRGGLASSWINDOWS.COM	
date: 01-06-23 scale: 1/2" = 1'-0" dr. by: JAF/BJQ chn. by:	revisions: no. date description 1 01-06-23 1/2" = 1'-0"
drawing no. 23-01F	
sheet 2 of 7	

DESIGN LOAD CAPACITY - PSF (XO OR OX SIZES)			
WINDOW DIMS.		5/16" LAM. GLASS	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
26-1/2"	26"	65.0	65.0
37"		65.0	65.0
53-1/8"		65.0	65.0
74"		65.0	65.0
26-1/2"	38-3/8"	65.0	65.0
37"		65.0	65.0
53-1/8"		65.0	65.0
74"		65.0	65.0
26-1/2"	50-5/8"	65.0	65.0
37"		65.0	65.0
53-1/8"		65.0	65.0
74"		65.0	65.0
26-1/2"	56"	65.0	65.0
37"		65.0	65.0
53-1/8"		65.0	65.0
74"		65.0	65.0
26-1/2"	63"	65.0	65.0
37"		65.0	65.0
53-1/8"		65.0	65.0
74"		65.0	65.0
36"	24"	65.0	65.0
48"		65.0	65.0
60"		65.0	65.0
72"		65.0	65.0
76"		65.0	65.0
36"	36"	65.0	65.0
48"		65.0	65.0
60"		65.0	65.0
72"		65.0	65.0
76"		65.0	65.0
78"		65.0	65.0
84"		65.0	65.0
90"	48"	65.0	65.0
96"		65.0	65.0
108"		65.0	65.0
36"	60"	65.0	65.0
48"		65.0	65.0
60"		65.0	65.0
72"		65.0	65.0
76"		65.0	65.0
74"	63"	65.0	65.0



OPERATING VENTS TO BE 1/2 OF THE WINDOW WIDTH
'XO OR OX'

DESIGN LOAD CAPACITY - PSF (XO OR OX SIZES)			
WINDOW DIMS.		5/16" LAM. GLASS	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
26-1/2"	26"	65.0	65.0
37"		65.0	65.0
53-1/8"		65.0	65.0
74"		65.0	65.0
26-1/2"	38-3/8"	65.0	65.0
37"		65.0	65.0
53-1/8"		65.0	65.0
74"		65.0	65.0
26-1/2"	50-5/8"	65.0	65.0
37"		65.0	65.0
53-1/8"		65.0	65.0
74"		65.0	65.0
26-1/2"	56"	65.0	65.0
37"		65.0	65.0
53-1/8"		65.0	65.0
74"		65.0	65.0
26-1/2"	63"	65.0	65.0
37"		65.0	65.0
53-1/8"		65.0	65.0
74"		65.0	65.0
48"	24"	65.0	65.0
60"		65.0	65.0
72"		65.0	65.0
78"		65.0	65.0
83-7/8"		65.0	65.0
48"	36"	65.0	65.0
60"		65.0	65.0
72"		65.0	65.0
78"		65.0	65.0
83-7/8"		65.0	65.0
90"		65.0	65.0
96"		65.0	65.0
102"	48"	65.0	65.0
108"		65.0	65.0
114"		65.0	65.0
48"	60"	65.0	65.0
60"		65.0	65.0
72"		65.0	65.0
78"		65.0	65.0
83-7/8"		65.0	65.0
83-7/8"	63"	65.0	65.0

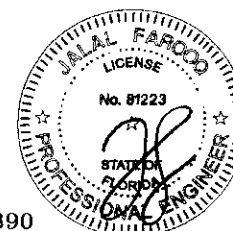


OPERATING VENTS TO BE 1/4 TO 1/3 OF THE WINDOW WIDTH
'XO OR OX'

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

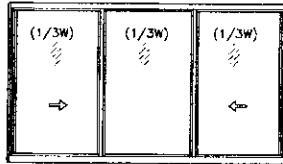
Sealed: 7/21/2023

FL #41890



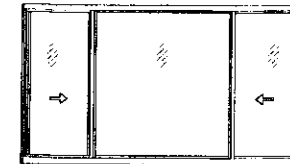
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL (305) 264-8100 WWW.AFCENG.COM P/E: #8538		MO-350 ALUM. HORIZ. ROLLING WDW. (L.M.I.) MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC 8051 N.W. 79th Place Medley, FL 33166 Tel (305) 764-3963 www.mrglasswindows.com	
		Revisions: No. 81223 State of Florida Professional Engineer	
date: 01-06-23 scale: - dr. by: TARIQ chg. by:	revisions: no. date by description 1 01-06-23 by description	drawing no. 23-01F sheet 3 of 7	

DESIGN LOAD CAPACITY - PSF (XOX SIZES)			
WINDOW DIMS.		5/16" LAM. GLASS	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
74"	26"	65.0	65.0
106-1/4"		65.0	65.0
111"		65.0	65.0
74"	38-3/8"	65.0	65.0
106-1/4"		65.0	65.0
111"		65.0	65.0
74"	50-5/8"	65.0	65.0
106-1/4"		65.0	65.0
111"		65.0	65.0
74"	56"	65.0	65.0
106-1/4"		65.0	65.0
111"		65.0	65.0
74"	63"	65.0	65.0
106-1/4"		65.0	65.0
111"		65.0	65.0
72"	24"	65.0	65.0
84"		65.0	65.0
96"		65.0	65.0
108"		65.0	65.0
72"	36"	65.0	65.0
84"		65.0	65.0
96"		65.0	65.0
108"		65.0	65.0
72"	48"	65.0	65.0
84"		65.0	65.0
96"		65.0	65.0
108"		65.0	65.0
114"		65.0	65.0
120"		65.0	65.0
126"	60"	65.0	65.0
132"		65.0	65.0
72"	60"	65.0	65.0
84"		65.0	65.0
96"		65.0	65.0
108"		65.0	65.0
114"	63"	65.0	65.0
111-5/8"		65.0	65.0



OPERATING VENTS TO BE 1/3 OF THE WINDOW WIDTH
'XOX'

DESIGN LOAD CAPACITY - PSF (XOX SIZES)			
WINDOW DIMS.		5/16" LAM. GLASS	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
74"	26"	65.0	65.0
106-1/4"		65.0	65.0
111"		65.0	65.0
74"	38-3/8"	65.0	65.0
106-1/4"		65.0	65.0
111"		65.0	65.0
74"	50-5/8"	65.0	65.0
106-1/4"		65.0	65.0
111"		65.0	65.0
74"	56"	65.0	65.0
106-1/4"		65.0	65.0
111"		65.0	65.0
74"	63"	65.0	65.0
106-1/4"		65.0	65.0
111"		65.0	65.0
72"	24"	65.0	65.0
84"		65.0	65.0
96"		65.0	65.0
108"		65.0	65.0
72"	36"	65.0	65.0
84"		65.0	65.0
96"		65.0	65.0
108"		65.0	65.0
72"	48"	65.0	65.0
84"		65.0	65.0
96"		65.0	65.0
108"		65.0	65.0
114"		65.0	65.0
120"		65.0	65.0
126"	60"	65.0	65.0
132"		65.0	65.0
72"	60"	65.0	65.0
84"		65.0	65.0
96"		65.0	65.0
108"		65.0	65.0
114"	63"	65.0	65.0
111-5/8"		65.0	65.0

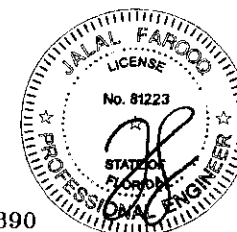


OPERATING VENTS TO BE 1/4 TO 1/3 OF THE WINDOW WIDTH
'XOX'

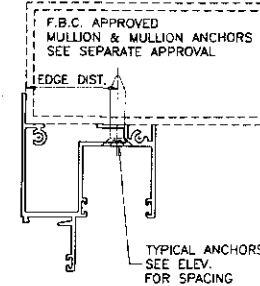
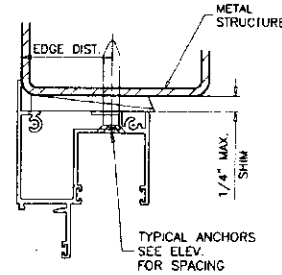
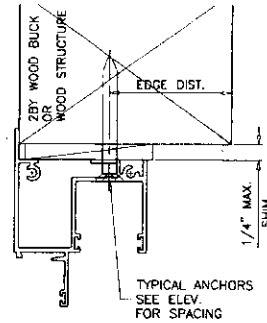
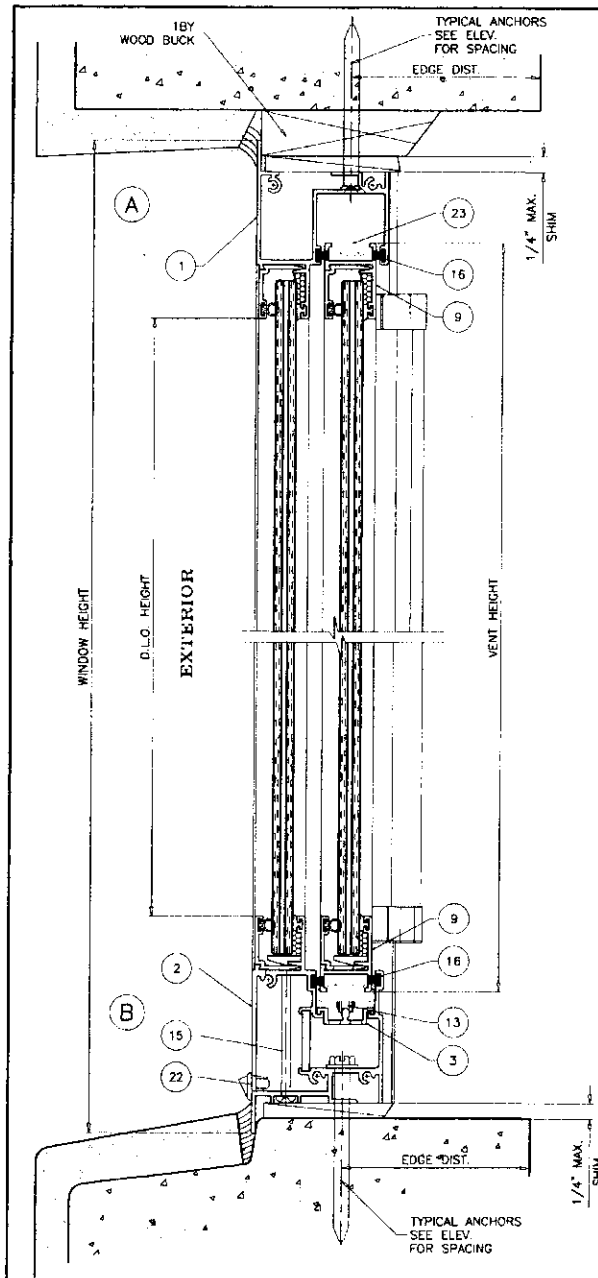
NOTE:
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DECLARATORY STATEMENT DCA05-DEC-219

Sealed: 7/21/2023

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AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL (305) 264-8100 WWW.AFCENCS.COM FBPE #8538		MO-350 ALUM. HORIZ. ROLLING WDW. (L.M.I.) MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC 8051 N.W. 79th Place Medley, FL 33166 Tel. (305) 764-3963 www.mrglasswindows.com	
		Revisions: no. date by description 01-06-23 scale: - dr. by: JAFQ chk. by:	
drawing no. 23-01F		sheet 3.1 of 7	



WOOD BUCKS AND METAL STRUCTURE NOT BY 'MR-GLASS' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

WEEPHOLES:

W1 = 1" X 1/4" WEEP SLOTS AT 3" FROM EACH END AND 14" O.C. MAX.

W2 = 1-3/4" X 3/8" WEEPHOLES AT 5" FROM EACH END AND AT MID SPAN WITH PLASTIC BAFFLE

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI) INTO 2BY WOOD BUCKS OR WOOD STRUCTURES 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS) THRU 1BY BUCKS INTO CONC. OR BLOCKS 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS) 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS) 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

#14 SMS OR SELF-DRILLING SCREWS (GRADE 2 CRS) INTO F.B.C. APPROVED MULLIONS OR INTO METAL STRUCTURES (HEAD/SILL/JAMBS) (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.) STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.) (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

CRITICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.

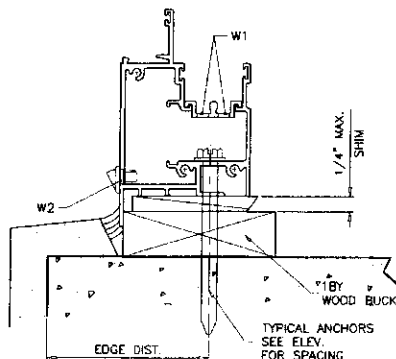
INTO WOOD STRUCTURE = 1" MIN.

INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.

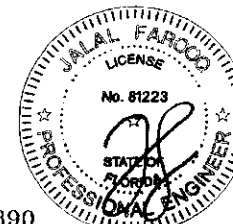
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.

C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



Sealed: 7/21/2023

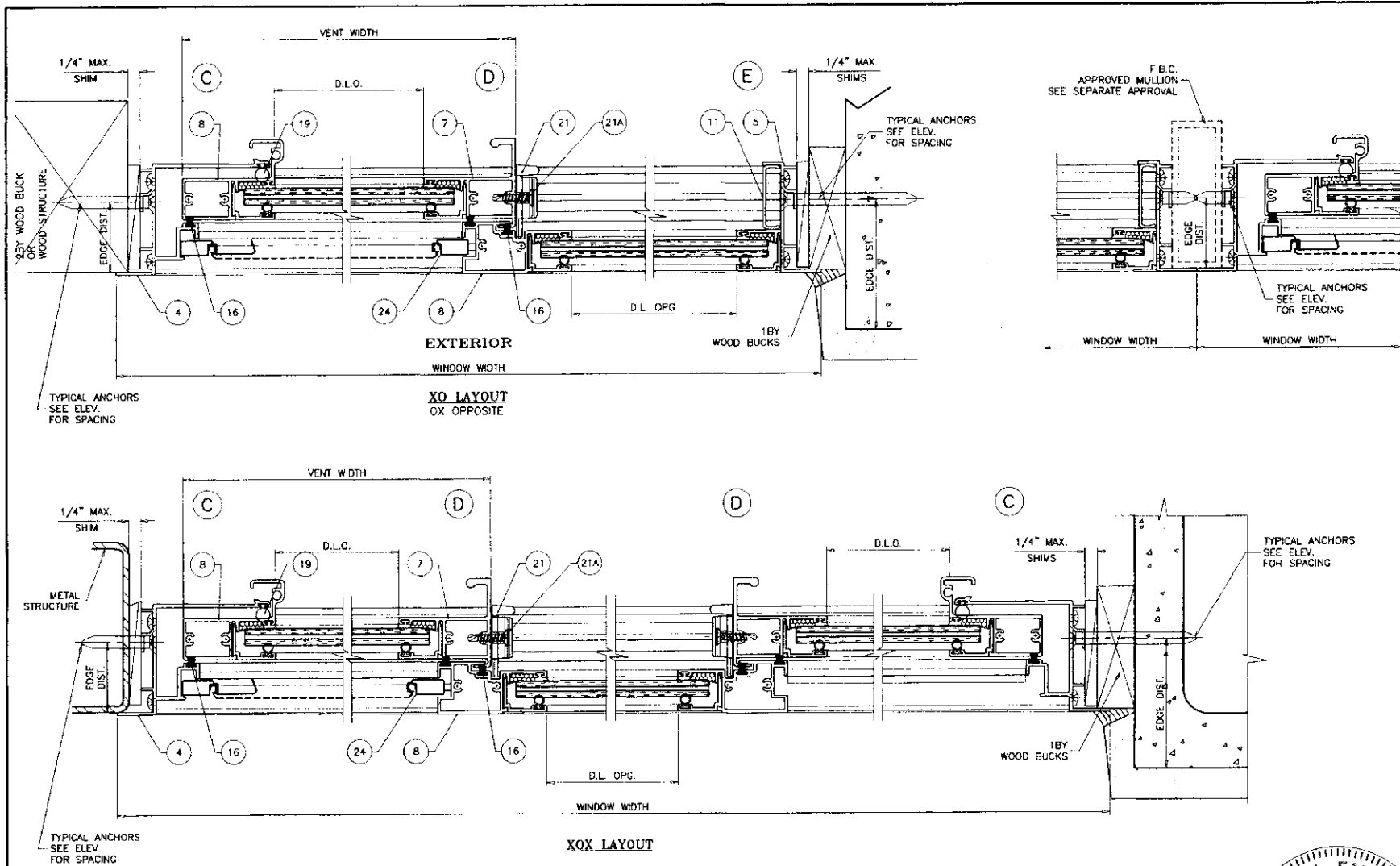
FL #41890



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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FBPE #3528
COMP-ANL V23-01F-MG

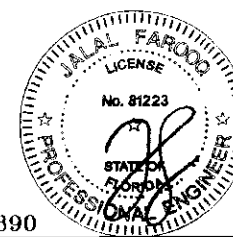
MG-350 ALUM. HORIZ. ROLLING HDW. (L.M.I.)
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL 33166
Tel: (305) 764-3963
www.mrglasswindows.com

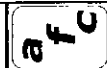
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ch: by:
drawing no: 23-01F
sheet 4 of 7



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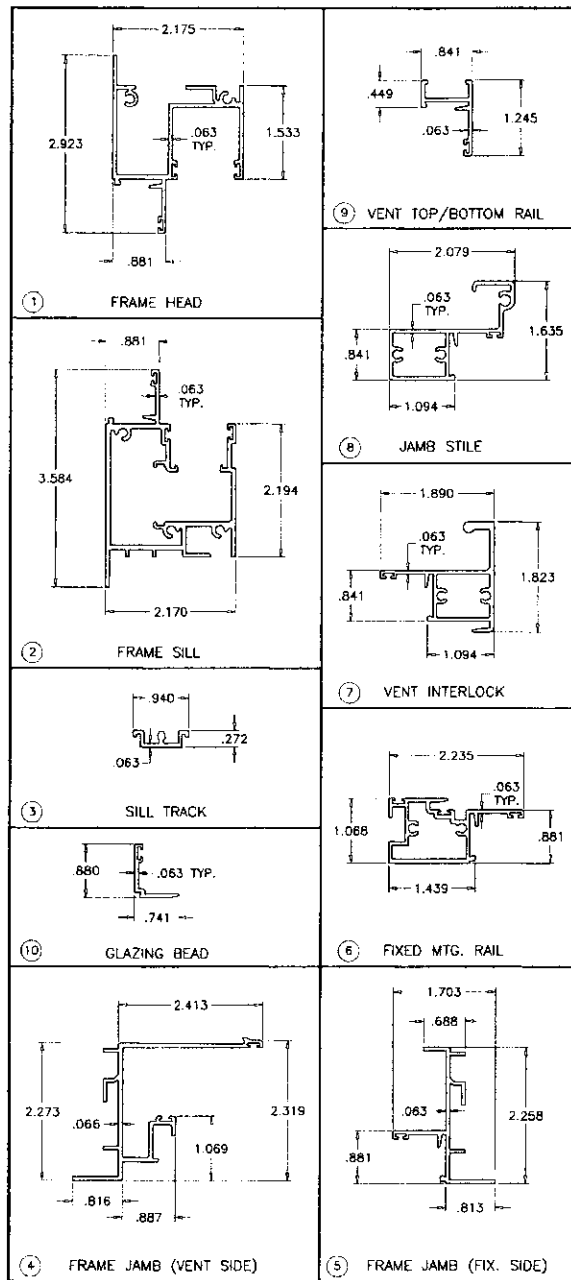
FL #41890





AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9380 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL (305) 294-8100
WWW.AFCORP.COM
FBPE #5538
COMP-ANL 23-01F-MG

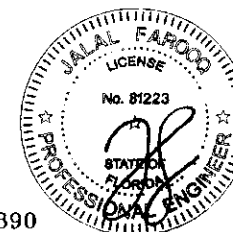
MG-350 ALUM HORIZ. ROLLING WDW. (L.M.I.) MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC 8051 N.W. 79th Place Medley, FL 33166 Tel. (305) 764-3963 www.mrglasswindows.com	
Revisions: 01-06-23 scale: 1/2" = 1" dr. by: TARG chg. by:	description 23-01F sheet 5 of 7



ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E-352	1	FRAME HEAD	6063-T6	-
2	E-351	1	FRAME SILL	6063-T6	-
3	E-359	1	SILL TRACK INSERT	6063-T6	-
4	E-353	AS REQD.	FRAME JAMB (VENT SIDE)	6063-T6	-
5	E-354	AS REQD.	FRAME JAMB (FIX. SIDE)	6063-T6	-
6	E-355	1/ VENT	FIXED MTG. RAIL	6063-T6	-
7	E-357	1/ VENT	VENT INTERLOCK	6063-T6	-
8	E-358	1/ VENT	JAMB STILE	6063-T6	-
9	E-356	2/ VENT	TOP AND BOTTOM RAIL	6063-T6	-
10	E-361	AS REQD.	GLAZING BEAD	6063-T6	-
11	E-365	AS REQD.	JAMB COVER	6063-T5	-
12	A35-01	AS REQD.	SILL INSERT, 3" LONG	6063-T6	AT MTG. STILE LOCATION
13	M35-04	2/ VENT	ROLLER ASSEMBLY	BRASS	-
14	#8 X 1-1/2"	AS REQD.	FRAME/VENT ASSEMBLY SCREWS	ST. STEEL	PH SMS
15	#8 X 3"	2	FIX. RAIL SILL SCREWS (SILL END)	ST. STEEL	PH SMS
16	G35-01	AS REQD.	FIN SEAL W'STRIPPING (.19 X .187)	-	ULTRAFAB
17	G20-07	AS REQD.	EXTERIOR GLAZING GASKET	NEOPRENE	ULTRAFAB
18	G25-01	AS REQD.	INTERIOR GLAZING GASKET	NEOPRENE	CPI
19	G25-03	AS REQD.	JAMB W'STRIPPING	VINYL/FOAM	AMESBURY
20	G35-02	AS REQD.	SETTING BLOCKS, AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
21	L2-01	2/ VENT	SWEEP LATCH, AT 9" FROM EACH END	ZAMAK	SULLIVAN & ASSOC.
21A	#8 X 1"	2/ LATCH	LATCH INST. SCREW	ST. STEEL	PH SMS
22	G2-01	2/ WDW.	HI-FLOW WEEPER	-	PREFERRED ENGINEERING PRODUCTS
23	M35-05	2/ VENT	VENT GUIDE	-	IDH
24	-	1/ VENT	5/16" BOX SCREEN	-	OPTIONAL
25	-	-	-	-	-

SEALANTS:

ALL FRAME CORNERS, FIXED MEETING RAIL TRACK INSERT AT EACH END AND INSTALLATION SCREWS IN SILL SEALED WITH ALUMINUM COLORED SEALANT.



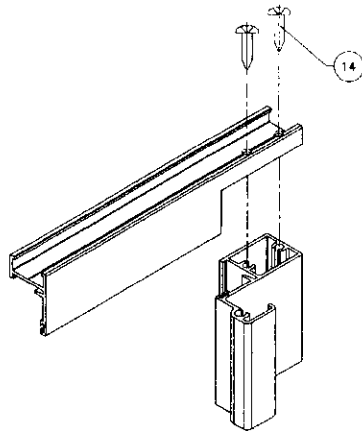
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FL #41890

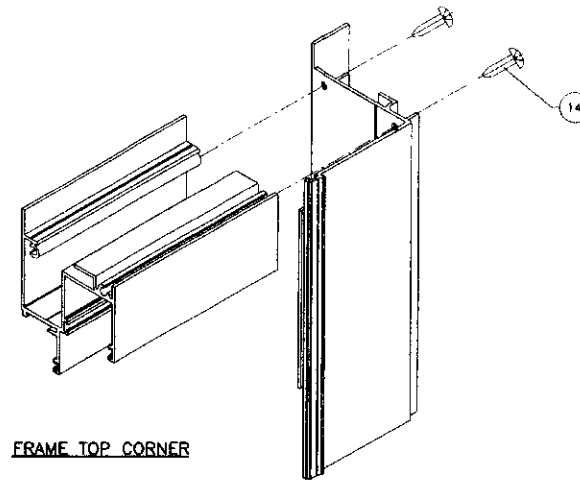
AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
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FBIPE #9538

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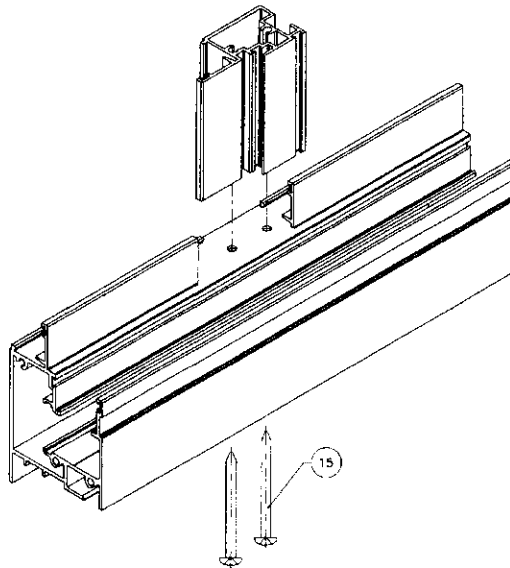
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sheet 6 of 7



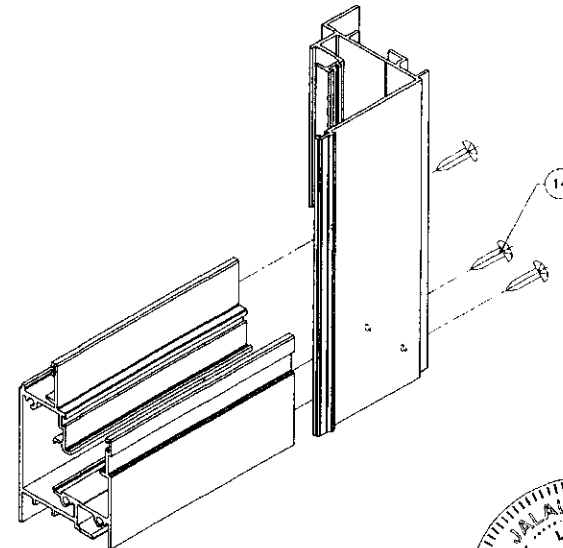
VENT TOP/BOTTOM CORNER



FRAME TOP CORNER



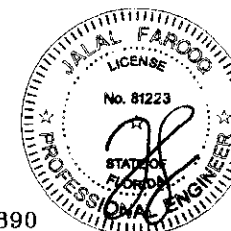
FIXED MTG. RAIL CORNER



FRAME BOTTOM CORNER

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drawing no. 23-01F	
sheet 7 of 7	